

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,936	11/14/2003	Sang Seok Lee	8733.940.00-US	9893
30827 . 7590	11/22/2004		EXAMINER	
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW			KOCH, GEORGE R	
WASHINGTON,			ART UNIT	PAPER NUMBER
			1734	

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

MEN

	Application No.	Applicant(s)			
Office Action Summer	10/712,936	LEE ET AL.			
Office Action Summary	Examiner	Art Unit			
	George R. Koch III	1734			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONER	ely filed will be considered timely. he mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on					
	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-118</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8)⊠ Claim(s) <u>1-118</u> are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner	•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office A	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents		(d) or (f).			
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	(PCT Rule 17.2(a)).	-			
* See the attached detailed Office action for a list of	f the certified copies not received				
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary (P	TO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Date 5) Notice of Informal Pate	·			
Paper No(s)/Mail Date	6) Other:	en Application (PTO-152)			

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-83, 86-106, 108-117, drawn to a substrate bonding apparatus, classified in class 156, subclass 351.
 - II. Claims 84-85, 107, and 118 drawn to a method of bonding, classified in class 156, subclass 64.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process (rather than manufacturing LCD devices). It can be used to bond optical disks (CD's and DVD's). It can also be used to precisely laminate layers of a paper/plastic sign (for use in sign-making).
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/712,936

Art Unit: 1734

- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 5. This application contains claims directed to the following groups of patentably distinct species of the claimed invention:
- 6. Group I: The sensing means includes
 - a. A load cell provided in each first actuator.
 - b. A load cell provided in an upper surface of the lower chamber unit.
 - c. A gap sensor for measuring a gap.
- 7. Group II: The moving part includes
 - d. A linear actuator.
 - e. A step motor.
 - f. A linear motor.
- 8. Group III: wherein
 - g. The driving part comprises an actuator, and the pipeline is an axis of the actuator.
 - h. The driving part comprises a step motor; and the pipeline is an axis of the step motor.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits *from each group* to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-6, 10-33, 37-44, 47-69, 73-80, 83-90, 94-103, 106-115 and 118 are generic to the groups.

Application/Control Number: 10/712,936

Art Unit: 1734

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

9. A telephone call was made to Eric Nuss on 11/10/2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Application/Control Number: 10/712,936

Art Unit: 1734

10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (571) 272-1230 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the applicant can communicate by calling the Federal Relay Service at 1-866-377-8642 and giving the operator the above TDD number. The examiner can normally be reached on M-Th 10-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George R. Koch III Patent Examiner Art Unit 1734

GRK 11/11/2004